

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
1 September 2005 (01.09.2005)

PCT

(10) International Publication Number  
**WO 2005/079840 A2**

(51) International Patent Classification<sup>7</sup>: **A61K 39/00**

(21) International Application Number:  
PCT/EP2005/001711

(22) International Filing Date: 18 February 2005 (18.02.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
04003914.1 20 February 2004 (20.02.2004) EP

(71) Applicant (for all designated States except US): **DEVELO-  
GEN AKTIENGESELLSCHAFT FÜR ENTWICK-  
LUNGSBIOLOGISCHE FORSCHUNG** [DE/DE];  
Rudolf-Wissell-Str. 28, 37079 Göttingen (DE).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **ONICHTCHOUK,**  
Daria [RU/DE]; Auf der Lieth 10, 37077 Göttingen (DE).

(74) Agent: **WEICKMANN & WEICKMANN**; Postfach 860  
820, 81635 München (DE).

(81) Designated States (unless otherwise indicated, for every  
kind of national protection available): AE, AG, AL, AM,

AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,  
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,  
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,  
ZW.

(84) Designated States (unless otherwise indicated, for every  
kind of regional protection available): ARIPO (BW, GH,  
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,  
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,  
FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,  
SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,  
GQ, GW, ML, MR, NE, SN, TD, TG).

**Declaration under Rule 4.17:**

— of inventorship (Rule 4.17(iv)) for US only

**Published:**

— without international search report and to be republished  
upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guid-  
ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.

(54) Title: **USE OF SECRETED PROTEIN PRODUCTS FOR PREVENTING AND TREATING PANCREATIC DISEASES  
AND/OR OBESITY AND/OR METABOLIC SYNDROME**

(57) Abstract: This invention relates to the use of secreted SF01-SF13 proteins, to the use of polynucleotides encoding these, and to the use of effectors/modulators thereof in the diagnosis, study, prevention, and treatment of pancreatic diseases (e.g. diabetes mellitus), obesity and/or metabolic syndrome and to the use in regeneration of tissues such as pancreatic tissues and others.



**WO 2005/079840 A2**